

Appendix II

Channel Design Drawings



US Army Corps
of Engineers
Chicago District

PROJECT TITLE:

East Chicago Effluent Channel

COMPUTED BY:

DFB

DATE:

25 Jul 03

SHEET:

Plate 1

COMPUTATION TITLE:

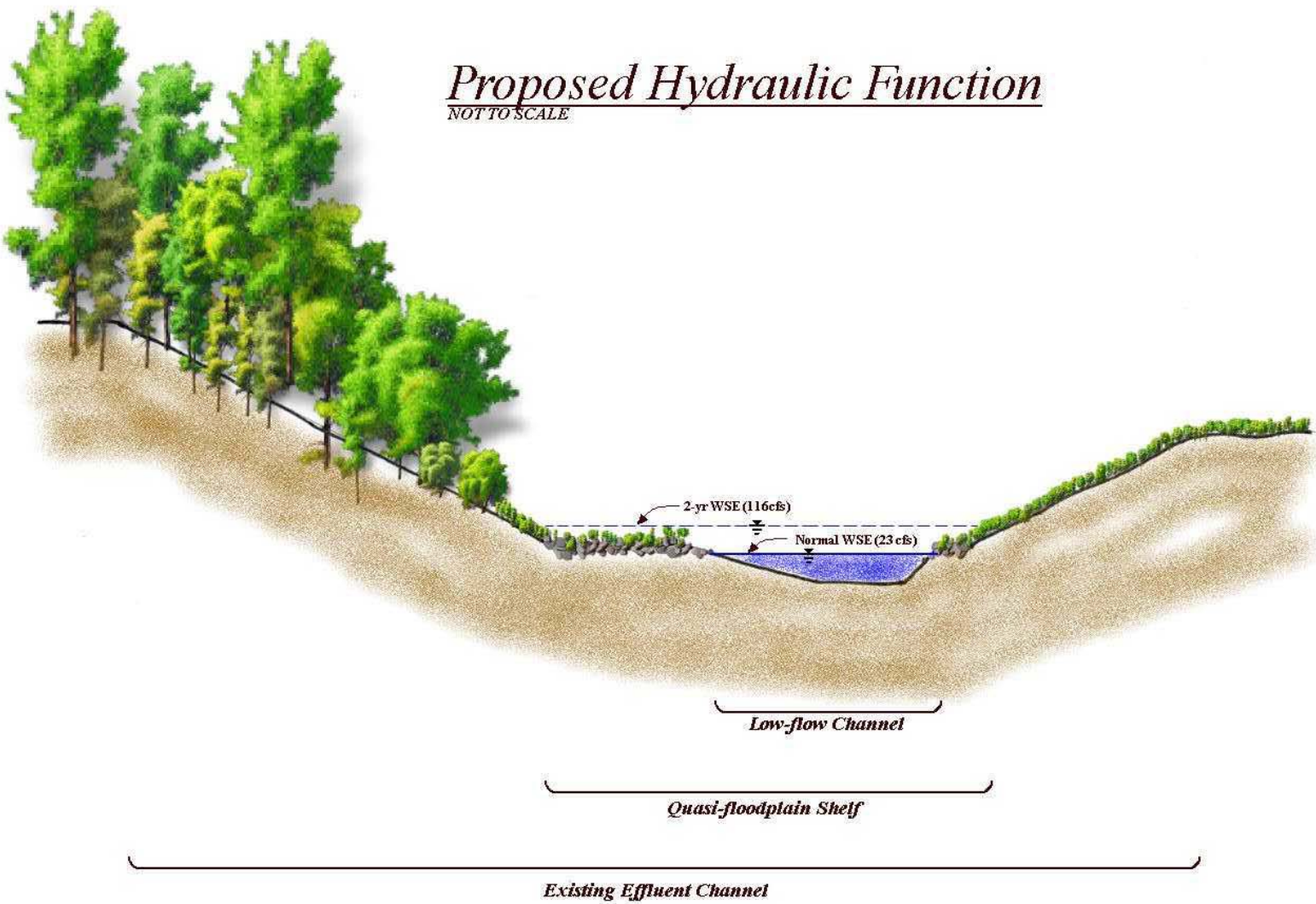
Proposed Hydraulic Function

CHECKED BY:

DATE:

Proposed Hydraulic Function

NOT TO SCALE





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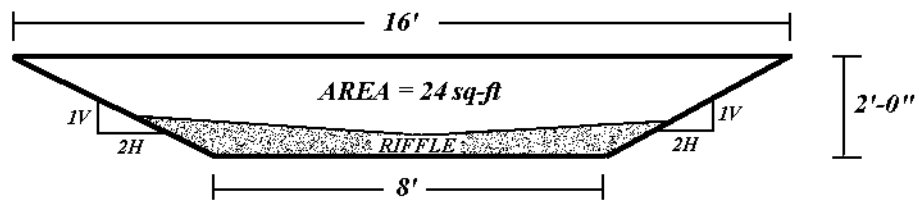
Plate 7

COMPUTATION TITLE:

Proposed Cross Sections

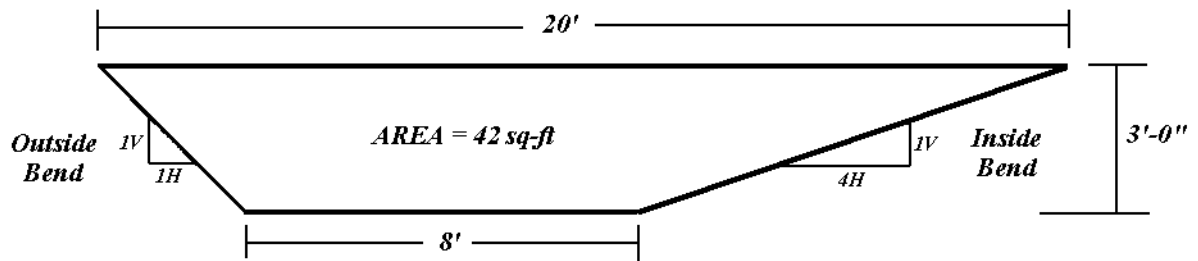
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DATE:



RIFFLE CROSS-SECTION

SCALE: 1" = 4'-0"



POOL CROSS-SECTION

SCALE: 1" = 4'-0"



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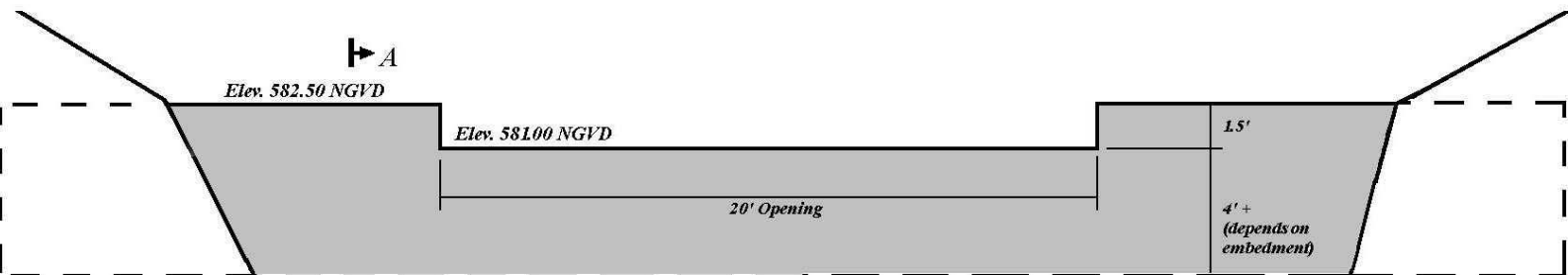
Plate 3

COMPUTATION TITLE:

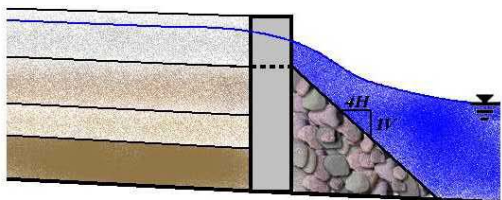
Proposed Barrier Hydraulic Details

CHECKED BY:

DATE:



Barrier Section
NOT TO SCALE



Section A-A'
NOT TO SCALE

Weir Characteristics:

Type:

Broad Crested

Width:

8" Concrete

Coefficient:

$C = 3.4$

Rip Rap:

Slope = 4H:1V

Depth = 3.5' Approx.

Width = 3.5'

Size = 0.5' Mean Dia.

Unit Wt. = 165 pcf

Volume = 65 cu-yd



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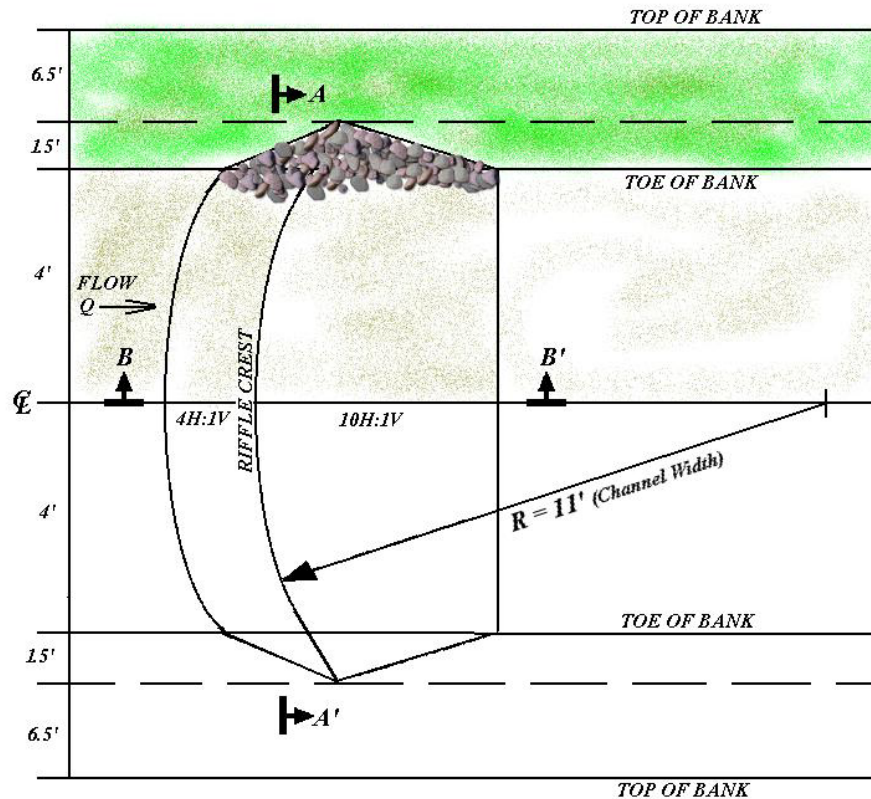
Plate 4

COMPUTATION TITLE:

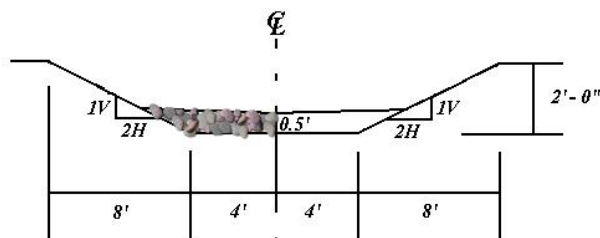
Rock Riffle Design

CHECKED BY:

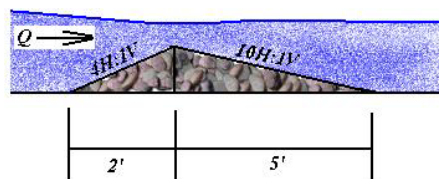
DATE:



PLAN VIEW
NOT TO SCALE



SECT A - A'
NOT TO SCALE



SECT B - B'
NOT TO SCALE

Rock Material:

Quantity:

Approx. = 21 sq-ft (0.8 cu-yd)

Type:

Small Cobblestone

Size:

Mean Size 4"-7" dia.



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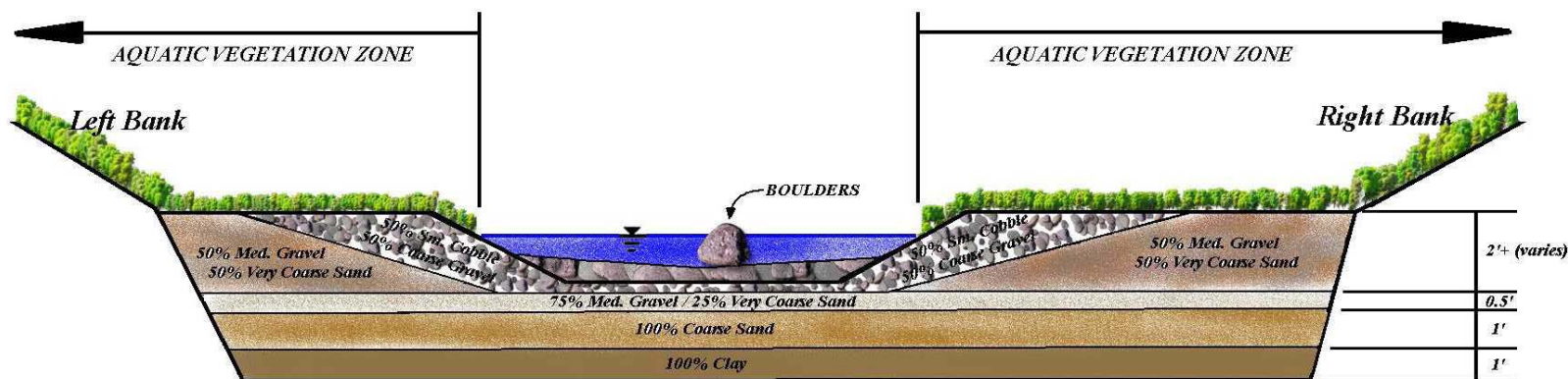
SHEET:

COMPUTATION TITLE:

Proposed Backfilled Cross-Sections

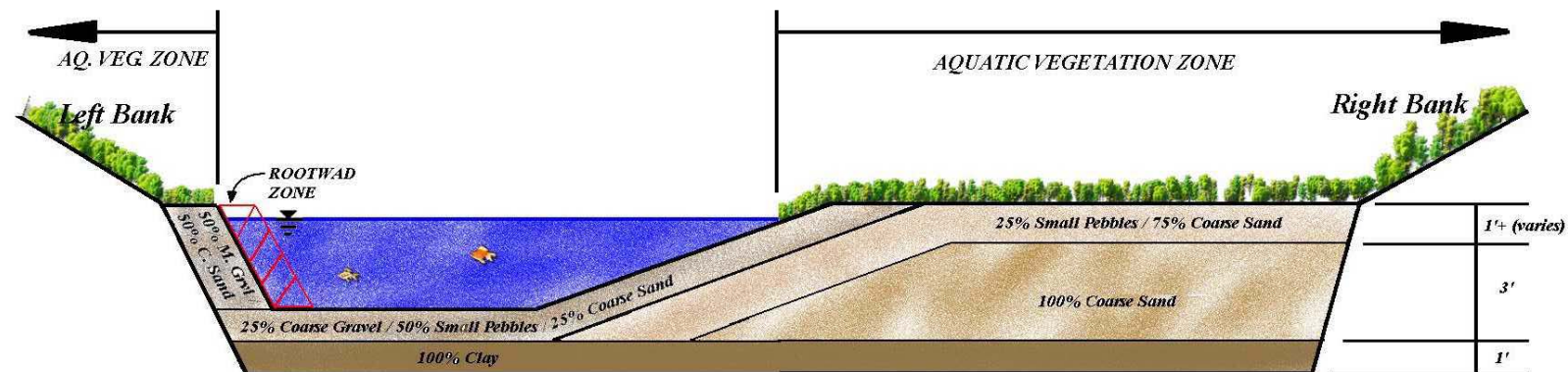
CHECKED BY:

DATE:



RIFFLE SECTION:

SCALE: 1" = 4' - 0"



POOL SECTION:

SCALE: 1" = 4' - 0"